

Section II
Soil and Site Information

Construction Materials Table 2
Bennett County, South Dakota

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Aa: Lohmiller-----	85	Poor Too clayey Low content of organic matter Water erosion	0.00 0.50 0.90	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.38	Poor Depth to permafrost Too Clayey	0.00 0.00
AlB: Altvan-----	90	Fair Low content of organic matter Droughty Water erosion	0.12 0.98 0.99	Good		Fair Hard to reclaim	0.92
AnB: Anselmo-----	90	Poor Too sandy Low content of organic matter	0.00 0.12	Poor Depth to permafrost	0.00	Poor Depth to permafrost Too sandy	0.00 0.00
AtE: Anselmo-----	45	Poor Too sandy Low content of organic matter	0.00 0.12	Poor Depth to permafrost	0.00	Poor Depth to permafrost Too sandy Slope	0.00 0.00 0.04
Tassel-----	30	Poor Droughty Depth to bedrock Too sandy	0.00 0.00 0.00	Not Rated Depth to bedrock Depth to permafrost	0.00 0.00	Poor Depth to permafrost Depth to bedrock Too sandy Slope	0.00 0.00 0.00 0.04
Bk: Bankard-----	85	Poor Wind erosion Droughty Low content of organic matter	0.00 0.40 0.88	Good		Fair Rock fragments Hard to reclaim	0.03 0.98

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Bo: Orthents, Hummocky--	90	Not rated		Not rated		Not rated	
CnF: Canyon-----	60	Poor Droughty Low content of organic matter Depth to bedrock	0.00 0.00 0.00	Not Rated Depth to bedrock Slope	0.00 0.00	Poor Slope Depth to bedrock	0.00 0.00
Rock Outcrop, Sandstone-----	20	Not rated		Not rated		Not rated	
CoF: Canyon-----	50	Poor Droughty Low content of organic matter Depth to bedrock	0.00 0.00 0.00	Not Rated Depth to bedrock Slope	0.00 0.00	Poor Slope Depth to bedrock	0.00 0.00
Oglala-----	30	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Depth to permafrost Slope Depth to bedrock	0.00 0.00 0.58	Poor Slope Depth to permafrost	0.00 0.00
Cr: Canyon-----	60	Poor Droughty Low content of organic matter Depth to bedrock	0.00 0.00 0.00	Not Rated Depth to bedrock Slope	0.00 0.00	Poor Slope Depth to bedrock	0.00 0.00
Rock Outcrop, Sandy-	25	Not rated		Not rated		Not rated	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
CyD2: Canyon-----	60	Poor Droughty Low content of organic matter Depth to bedrock	0.00 0.00 0.00	Not Rated Depth to bedrock	0.00	Poor Depth to bedrock	0.00
Rosebud-----	30	Fair Depth to bedrock Droughty Low content of organic matter Water erosion	0.58 0.70 0.88 0.99	Poor Depth to bedrock Depth to permafrost	0.00 0.00	Poor Depth to permafrost Depth to bedrock	0.00 0.58
DkA: Dawes-----	60	Poor Too alkaline Low content of organic matter Water erosion	0.00 0.88 0.90	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.75	Poor Depth to permafrost Sodium content	0.00 0.10
Keith-----	30	Fair Low content of organic matter Water erosion	0.12 0.90	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
DrB: Dawes-----	65	Poor Too alkaline Low content of organic matter Water erosion	0.00 0.88 0.90	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.75	Poor Depth to permafrost Sodium content	0.00 0.10
Richfield-----	30	Fair Too clayey Low content of organic matter Water erosion	0.05 0.12 0.90	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.69	Poor Depth to permafrost Too Clayey	0.00 0.03

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
DsB: Dunday-----	90	Poor Wind erosion	0.00	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
		Low content of organic matter	0.12			Too sandy	0.32
		Too sandy	0.32				
		Droughty	0.92				
Vetal-----	3	Fair Low content of organic matter	0.12	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
DtA: Dunday-----	60	Poor Wind erosion	0.00	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
		Low content of organic matter	0.12			Too sandy	0.32
		Too sandy	0.32				
		Droughty	0.92				
Anselmo-----	30	Poor Too sandy	0.00	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
		Low content of organic matter	0.12			Too sandy	0.00
DtC: Dunday-----	65	Poor Wind erosion	0.00	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
		Low content of organic matter	0.12			Too sandy	0.32
		Too sandy	0.32				
		Droughty	0.92				
Anselmo-----	25	Poor Too sandy	0.00	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
		Low content of organic matter	0.12			Too sandy	0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Du: Dunday-----	50	Poor Wind erosion Low content of organic matter Too sandy Droughty	0.00 0.12 0.32 0.92	Poor Depth to permafrost	0.00	Poor Depth to permafrost Too sandy	0.00 0.32
Elsmere-----	45	Poor Too sandy Wind erosion Low content of organic matter Droughty	0.00 0.00 0.12 0.62	Poor Depth to permafrost Depth to saturated zone	0.00 0.76	Poor Depth to permafrost Too sandy Depth to saturated zone	0.00 0.00 0.76
DvB: Dunday-----	50	Poor Wind erosion Low content of organic matter Too sandy Droughty	0.00 0.12 0.32 0.92	Poor Depth to permafrost	0.00	Poor Depth to permafrost Too sandy	0.00 0.32
Valentine-----	35	Poor Too sandy Wind erosion Low content of organic matter Droughty	0.00 0.00 0.12 0.71	Poor Depth to permafrost	0.00	Poor Depth to permafrost Too sandy	0.00 0.00
EhF: Epping-----	55	Poor Droughty Low content of organic matter Depth to bedrock Water erosion	0.00 0.00 0.00 0.90	Not Rated Depth to bedrock Depth to permafrost Slope	0.00 0.00 0.00	Poor Slope Depth to permafrost Depth to bedrock	0.00 0.00 0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Kadoka-----	30	Fair Depth to bedrock	0.58	Poor Depth to bedrock	0.00	Poor Depth to permafrost	0.00
		Water erosion	0.90	Depth to permafrost	0.00	Slope	0.37
		Droughty	0.99	Low strength	0.00	Depth to bedrock	0.58
Ga: Gannett-----	85	Poor Too sandy	0.00	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
		Low content of organic matter	0.12	Depth to saturated zone	0.00	Too sandy	0.00
		Droughty	0.79			Depth to saturated zone	0.00
GoA: Mobridge-----	90	Fair Too clayey	0.98	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
				Low strength	0.00	Too Clayey	0.97
				Shrink-swell	0.89		
GoB: Mobridge-----	90	Fair Too clayey	0.98	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
				Low strength	0.00	Too Clayey	0.97
				Shrink-swell	0.89		
Gr: Nihill-----	85	Fair Low content of organic matter	0.12	Poor Slope	0.00	Poor Slope	0.00
						Hard to reclaim	0.00
						Rock fragments	0.00
HaA: Haverson-----	90	Fair Low content of organic matter	0.50	Fair Shrink-swell	0.87	Good	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
HtB: Holt-----	45	Fair		Poor		Poor	
		Droughty	0.03	Depth to bedrock	0.00	Depth to permafrost	0.00
		Depth to bedrock	0.58	Depth to permafrost	0.00	Depth to bedrock	0.58
Tuthill-----	45	Sodium content	0.97				
		Good		Poor		Poor	
				Depth to permafrost	0.00	Depth to permafrost	0.00
HtC: Holt-----	45	Fair		Poor		Poor	
		Droughty	0.03	Depth to bedrock	0.00	Depth to permafrost	0.00
		Depth to bedrock	0.58	Depth to permafrost	0.00	Depth to bedrock	0.58
Tuthill-----	45	Sodium content	0.97				
		Good		Poor		Poor	
				Depth to permafrost	0.00	Depth to permafrost	0.00
Hv: Hoven-----	95	Poor		Poor		Poor	
		Too clayey	0.00	Depth to saturated zone	0.00	Depth to permafrost	0.00
		Sodium content	0.00	Depth to permafrost	0.00	Depth to saturated zone	0.00
		Low content of organic matter	0.50	Low strength	0.00	Too Clayey	0.00
		Salinity	0.88	Shrink-swell	0.12	Sodium content	0.00
KaB: Kadoka-----	90	Water erosion	0.99			Salinity	0.00
		Fair		Poor		Poor	
		Depth to bedrock	0.58	Depth to bedrock	0.00	Depth to permafrost	0.00
		Water erosion	0.90	Depth to permafrost	0.00	Depth to bedrock	0.58
		Droughty	0.99	Low strength	0.00		

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
KeA: Keith-----	90	Fair Low content of organic matter Water erosion	0.12 0.90	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
KeB: Keith-----	85	Fair Low content of organic matter Water erosion	0.12 0.90	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
KhD: Keith-----	65	Fair Low content of organic matter Water erosion	0.12 0.90	Poor Depth to permafrost	0.00	Poor Depth to permafrost Slope	0.00 0.84
Colby-----	20	Fair Carbonate content Low content of organic matter Water erosion	0.46 0.50 0.90	Poor Depth to permafrost Low strength	0.00 0.00	Poor Depth to permafrost Carbonate content Slope	0.00 0.46 0.63
KrA: Keith-----	50	Fair Low content of organic matter Water erosion	0.12 0.90	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
Rosebud-----	45	Fair Depth to bedrock Droughty Low content of organic matter Water erosion	0.58 0.70 0.88 0.99	Poor Depth to bedrock Depth to permafrost	0.00 0.00	Poor Depth to permafrost Depth to bedrock	0.00 0.58

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Krb: Keith-----	55	Fair		Poor		Poor	
		Low content of organic matter Water erosion	0.12 0.90	Depth to permafrost	0.00	Depth to permafrost	0.00
Rosebud-----	35	Fair		Poor		Poor	
		Depth to bedrock	0.58	Depth to bedrock	0.00	Depth to permafrost	0.00
		Droughty	0.70	Depth to permafrost	0.00	Depth to bedrock	0.58
		Low content of organic matter Water erosion	0.88 0.99				
KuC: Keith-----	45	Fair		Poor		Poor	
		Low content of organic matter Water erosion	0.12 0.90	Depth to permafrost	0.00	Depth to permafrost	0.00
Ulysses-----	45	Fair		Poor		Poor	
		Low content of organic matter Water erosion	0.12 0.90	Depth to permafrost Low strength	0.00 0.00	Depth to permafrost	0.00
La: Lamo-----	85	Fair		Poor		Poor	
		Low content of organic matter Water erosion	0.88 0.90	Depth to permafrost Low strength	0.00 0.22	Depth to permafrost Depth to saturated zone	0.00 0.53
				Depth to saturated zone	0.53		
				Shrink-swell	0.87		
Lo: Loup-----	90	Poor		Poor		Poor	
		Too sandy	0.00	Depth to permafrost	0.00	Depth to permafrost	0.00
		Low content of organic matter	0.88	Depth to saturated zone	0.00	Too sandy	0.00
						Depth to saturated zone	0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ma: Aquolls-----	90	Not rated		Not rated		Not rated	
Me: Minatare-----	80	Poor Too alkaline Sodium content Salinity Low content of organic matter Carbonate content Water erosion	0.00 0.00 0.07 0.12 0.97 0.99	Poor Depth to permafrost Depth to saturated zone	0.00 0.53	Poor Depth to permafrost Sodium content Depth to saturated zone Rock fragments Salinity	0.00 0.00 0.53 0.88 0.88
Mm: Mosher-----	65	Poor Sodium content Low content of organic matter Too clayey Salinity Water erosion	0.00 0.12 0.76 0.88 0.99	Poor Low strength Shrink-swell	0.00 0.17	Poor Salinity Too Clayey Sodium content	0.00 0.44 0.90
Minatare-----	30	Poor Too alkaline Sodium content Salinity Low content of organic matter Carbonate content Water erosion	0.00 0.00 0.07 0.12 0.97 0.99	Poor Depth to permafrost Depth to saturated zone	0.00 0.53	Poor Depth to permafrost Sodium content Depth to saturated zone Rock fragments Salinity	0.00 0.00 0.53 0.88 0.88

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OcE: Oglala-----	50	Fair		Poor		Poor	
		Low content of organic matter	0.50	Depth to permafrost	0.00	Slope	0.00
		Water erosion	0.90	Depth to bedrock	0.58	Depth to permafrost	0.00
Canyon-----	30	Poor		Slope	0.92		
		Droughty	0.00	Not Rated		Poor	
		Low content of organic matter	0.00	Depth to bedrock	0.00	Depth to bedrock	0.00
OrA: Oglala-----	65	Depth to bedrock	0.00			Slope	0.37
		Fair		Poor		Poor	
		Low content of organic matter	0.50	Depth to permafrost	0.00	Depth to permafrost	0.00
OrB: Oglala-----	50	Water erosion	0.90	Depth to bedrock	0.58		
		Fair		Poor		Poor	
		Low content of organic matter	0.50	Depth to permafrost	0.00	Depth to permafrost	0.00
RkA: Richfield-----	45	Water erosion	0.90	Depth to bedrock	0.58		
		Fair		Poor		Poor	
		Too clayey	0.05	Depth to permafrost	0.00	Depth to permafrost	0.00
Keith-----	45	Low content of organic matter	0.12	Low strength	0.00	Too Clayey	0.03
		Water erosion	0.90	Shrink-swell	0.69		
		Fair		Poor		Poor	
		Low content of organic matter	0.12	Depth to permafrost	0.00	Depth to permafrost	0.00
		Water erosion	0.90				

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RkB: Richfield-----	45	Fair Too clayey	0.05	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
		Low content of organic matter	0.12	Low strength	0.00	Too Clayey	0.03
		Water erosion	0.90	Shrink-swell	0.69		
Keith-----	40	Fair Low content of organic matter	0.12	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
		Water erosion	0.90				
TaF: Tassel-----	60	Poor Droughty	0.00	Not Rated Depth to bedrock	0.00	Poor Slope	0.00
		Depth to bedrock	0.00	Slope	0.00	Depth to permafrost	0.00
		Too sandy	0.00	Depth to permafrost	0.00	Depth to bedrock	0.00
						Too sandy	0.00
Anselmo-----	25	Poor Too sandy	0.00	Poor Depth to permafrost	0.00	Poor Slope	0.00
		Low content of organic matter	0.12	Slope	0.98	Depth to permafrost	0.00
						Too sandy	0.00
TnB: Anselmo-----	45	Poor Too sandy	0.00	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
		Low content of organic matter	0.12			Too sandy	0.00
Tuthill-----	45	Good		Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
TnC: Tuthill-----	40	Good		Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Anselmo-----	40	Poor Too sandy	0.00	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
		Low content of organic matter	0.12			Too sandy	0.00
VaC: Valentine-----	90	Poor Too sandy	0.00	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
		Wind erosion	0.00			Too sandy	0.00
		Low content of organic matter	0.12			Slope	0.63
		Droughty	0.71				
VaD: Valentine-----	85	Poor Too sandy	0.00	Poor Depth to permafrost	0.00	Poor Slope	0.00
		Wind erosion	0.00	Slope	0.00	Depth to permafrost	0.00
		Low content of organic matter	0.12			Too sandy	0.00
		Droughty	0.71				
VeD: Valentine-----	60	Poor Too sandy	0.00	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
		Wind erosion	0.00	Slope	0.50	Too sandy	0.00
		Low content of organic matter	0.12			Slope	0.00
		Droughty	0.71				
Tassel-----	25	Poor Droughty	0.00	Not Rated Depth to bedrock	0.00	Poor Depth to permafrost	0.00
		Depth to bedrock	0.00	Depth to permafrost	0.00	Depth to bedrock	0.00
		Too sandy	0.00	Slope	0.50	Slope	0.00
						Too sandy	0.00

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(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The ratings given for the thickest layer are for the thickest layer above and excluding the bottom layer. The numbers in the value columns range from 0.00 to 0.99. The greater the value, the greater the likelihood that the bottom layer or thickest layer of the soil is a source of sand or gravel. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
VgA: Mobridge-----	45	Fair Too clayey	0.98	Poor Depth to permafrost Low strength Shrink-swell	0.00 0.00 0.89	Poor Depth to permafrost Too Clayey	0.00 0.97
Vetal-----	45	Fair Low content of organic matter	0.12	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
VhD: Vetal-----	60	Fair Low content of organic matter	0.12	Poor Depth to permafrost	0.00	Poor Depth to permafrost	0.00
Holt-----	25	Fair Droughty Depth to bedrock Sodium content	0.03 0.58 0.97	Poor Depth to bedrock Depth to permafrost	0.00 0.00	Poor Depth to permafrost Slope Depth to bedrock	0.00 0.37 0.58
w: Water (less Than 40 Acres)-----	100	Not rated		Not rated		Not rated	
ww: Water (greater Than 40 Acres)-----	100	Not rated		Not rated		Not rated	

